

Notice of Allowability

Application No.

10/064,012

Examiner

Vincent T. Tran

Applicant(s)

ANTONIO ABBONDANZIO

Art Unit

2115

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/4/2002.
2. ☒ The allowed claim(s) is/are 1,2,6-12 and 15-19, 21.
3. ☒ The drawings filed on 04 June 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Josept P. Lally on 6/20/2005.

IN THE CLAIMS

List of Claims:

- 1 (currently amended). A data processing configuration, comprising:
 - a set of data processing subsystems, each subsystem including persistent storage suitable for containing boot configuration information;
 - a management module connected to each of the subsystems, wherein the management module includes management module persistent storage containing boot configuration information corresponding to at least one of the subsystems; and
 - wherein at least one of the subsystems includes boot code means configured to retrieve its boot configuration information from the management module persistent storage during a boot of the subsystem;
 - wherein the management module is configured to provide the boot configuration information as a set of boot configuration commands; and
 - wherein the subsystem is configured to translate at least one of the boot configuration commands into a corresponding boot configuration bit address specific to the subsystem.

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2. (original). The configuration of claim 1, wherein the management module persistent storage includes a boot configuration table containing boot configuration settings corresponding to each of the subsystems in the configuration.

3. (canceled).

4. (canceled).

5. (canceled).

6. (currently amended). The configuration of claim {4} 1, further comprising a cabinet having a plurality of slots, wherein each of the subsystems occupies a corresponding slot, and wherein each of the subsystems share cabinet resources including system power supplies and cooling fans.

7. (original). The configuration of claim 1, wherein the subsystem is further operable, upon determining that the management module is unavailable during a boot sequence, to retrieve boot configuration information from the subsystem's persistent storage.

8. (original). The configuration of claim 1, further comprising a dedicated connection between the management module and a subsystem and operable for configuring the boot configuration settings in the subsystem independent of power supplied to the subsystem's processors.

9. (currently amended). A method of booting data processing subsystems in a data processing configuration, comprising:

responsive to a boot event, initiating a boot sequence for at least one of the data processing subsystems;

during the boot sequence, retrieving boot configuration information from a management module connected to each of the set of data processing subsystems;

storing the retrieved information in local persistent memory of the data processing subsystem; and

upon determining that the management module is unavailable during a boot sequence, retrieving boot configuration information from the subsystem's persistent storage; and

configuring the boot configuration settings in the subsystem independent of power supplied to the subsystem's processors using a dedicated connection between the management module and the subsystem.

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10. (original). The method of claim 9, wherein retrieving the boot configuration information comprises retrieving the information from a boot configuration table in persistent storage of the management module containing boot configuration settings corresponding to each of the subsystems.
11. (original). The method of claim 9, wherein the boot configuration information is retrieved as a set of boot configuration commands from the management module.
12. (original). The method of claim 11, wherein retrieving the boot configuration information includes translating each of the boot configuration commands into a corresponding boot configuration bit address specific to the subsystem.
13. (canceled).
14. (canceled).
15. (Previously presented). A computer program product comprising computer executable instructions stored on a computer readable medium for booting data processing subsystem in a data processing configuration, the instructions comprising:
 ~~computer code means~~ instruction for initiating a boot sequence on at least one of the data processing subsystems responsive to a boot event;
 ~~computer code means~~ instruction for retrieving boot configuration information for at least one of the data processing subsystems from a management module connected to each of the set of data processing subsystems; and
 ~~computer code means~~ instructions for storing the retrieved information in local persistent memory of the data processing subsystem;
 instructions for configuring the boot configuration settings in the subsystem independent of power supplied to the subsystem's processors using a dedicated connection between the management module and the subsystem.
16. (Previously presented). The computer program product of claim 15, wherein the ~~code means~~ instructions for retrieving the boot configuration information comprises ~~code means~~ instructions for retrieving the information from a boot configuration table in persistent storage of the management module containing boot configuration settings corresponding to each of the subsystems.
17. (original). The computer program product of claim 15, wherein the boot configuration information is retrieved using a set of boot configuration commands from the management module.
18. (Previously presented). The computer program product of claim 17, wherein the ~~code means~~ instructions for retrieving the boot configuration information includes ~~code means~~ instructions for translating each of the boot configuration commands into a corresponding boot configuration bit address specific to the subsystem.

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19. (Previously presented). The computer program product of claim 15, further comprising ~~code means~~ instructions for retrieving boot configuration information from the subsystem's persistent storage upon determining that the management module is unavailable during the boot sequence.

20. (canceled).

21. (Previously presented). The configuration of claim 1, wherein each of the subsystems comprises a server blade having at least one processor and a system memory accessible to processor.

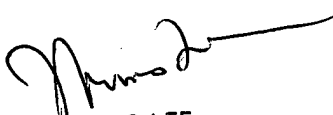
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vincent T. Tran whose telephone number is (571) 272-7210. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas c. Lee can be reached on (57 1)272-3667. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vincent Tran


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